

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	103744	catalyst same (vanadium or chromium or manganese or iron or cobalt or nickel or copper or molybdenum or tungsten) same (amine or amide or urea or acid or alcohol or surfactant or amino)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/11/06 14:32
S2	10052	S1 and ((promoter or activator or modifier) same (zirconium or uranium or titanium or thallium or hafnium or cerium or lanthan\$3 or yttrium or magnesium or calcium or silicon or cesium or rubidium or molybdenum or tungsten or chromium or magnesium or "rare earth" or alkali\$2 or "noble metal"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 14:26
S3	3802	S2 and ((support or carrier) same (oxide or oxycarbide or zeolite or nitride or "boron nitride"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 14:27
S4	4403	S2 and ((support or carrier) same (oxide or oxycarbide or zeolite or carbon or nitride or "boron nitride"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 14:27
S5	3208	S4 and (catalyst same (cobalt or nickel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 14:28
S6	757	S5 and (fischer\$1tropsch or hydrotreat\$4 or ("partial oxidation" or prox) or reforming) near10 (process or method)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 14:31
S7	131	((polar or organic) same (solid or liquid) same (amine or amide or urea or acid or alcohol or surfactant or amino)) and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/14 10:53
S8	14	((("4608359") or ("4559365") or ("4113658") or ("3853791") or ("4522940") or ("4469815"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 15:20

## EAST Search History

S9	24347	(mixture or admixture or slurry) same (precursor or component) same (metal\$3 or catalyst) same (support or carrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/14 10:49
S10	103764	catalyst same (vanadium or chromium or manganese or iron or cobalt or nickel or copper or molybdenum or tungsten) same (amine or amide or urea or acid or alcohol or surfactant or amino)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/14 10:49
S11	10055	S10 and ((promoter or activator or modifier) same (zirconium or uranium or titanium or thallium or hafnium or cerium or lanthan\$3 or yttrium or magnesium or calcium or silicon or cesium or rubidium or molybdenum or tungsten or chromium or magnesium or "rare earth" or alkali\$2 or "noble metal"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/14 10:49
S12	4405	S11 and ((support or carrier) same (oxide or oxycarbide or zeolite or carbon or nitride or "boron nitride"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/14 10:49
S13	3210	S12 and (catalyst same (cobalt or nickel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/14 10:49
S14	759	S13 and (fischer\$1tropsch or hydrotreat\$4 or ("partial oxidation" or prox) or reforming) near10 (process or method)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/14 10:49
S15	407	S9 and S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/14 10:52
S16	69	((polar or organic) same (solid or liquid) same (amine or amide or urea or acid or alcohol or surfactant or amino)) and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/14 10:55

## EAST Search History

S17	102	((("5204140") or ("5290589") or ("5317132") or ("5348797") or ("5352517") or ("3846341") or ("3844816") or ("3839064") or ("3787332") or ("4094690") or ("4096095") or ("4115474") or ("4263127") or ("4273936") or ("4273678") or ("4288372") or ("4289886") or ("4317777") or ("4320074") or ("4325804") or ("4331825") or ("4343950") or ("4362547") or ("4366158") or ("4382148") or ("4397770") or ("4414137") or ("4422865") or ("4428864") or ("4451683") or ("4454245") or ("4455388") or ("4464482") or ("4481102") or ("4501925") or ("4503272") or ("4513158") or ("4533684") or ("4533534") or ("4548705") or ("4554332") or ("4555584") or ("4567314") or ("4574146") or ("4578182") or ("4579917") or ("4579838") or ("4581424") or ("4608360") or ("4618738"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/17 09:22
S18	99	((("4762815") or ("4765882") or ("4769425") or ("4778861") or ("4791179") or ("4812535") or ("4837240") or ("4859738") or ("4883783") or ("4920090") or ("4985385") or ("5011889") or ("5252677") or ("5279852") or ("5306522") or ("5374694") or ("5389496") or ("5391590") or ("5406002") or ("5411553") or ("5500315") or ("5672800") or ("5854170") or ("5899678") or ("5922616") or ("6254650") or ("6258135") or ("6261679") or ("6265358") or ("6265489") or ("6265576") or ("6266475") or ("6268509") or ("6274538") or ("6274684") or ("6281181") or ("6284072") or ("6287765") or ("6288013") or ("6291392") or ("6291691") or ("6293976") or ("6300436") or ("6300438") or ("6300439") or ("6300496") or ("6302921") or ("6303561") or ("6306984") or ("6307065"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/17 09:23

## EAST Search History

S19	99	((("6310107") or ("6318124") or ("6320007") or ("6323366") or ("6326341") or ("6329120") or ("6329121") or ("6329400") or ("6331541") or ("6339126") or ("6339134") or ("6340661") or ("6342538") or ("6344457") or ("6344505") or ("6344521") or ("6346569") or ("6346584") or ("6346586") or ("6350431") or ("6355708") or ("6358911") or ("6362239") or ("6362269") or ("6365564") or ("6365652") or ("6369174") or ("6369184") or ("6369283") or ("6372754") or ("6379863") or ("6388006") or ("6388115") or ("6391391") or ("6391819") or ("6399557") or ("6399564") or ("6410664") or ("6413928") or ("6414139") or ("6414149") or ("6417376") or ("6423676") or ("6423787") or ("6437080") or ("6440649") or ("6440927") or ("6444634") or ("6444686") or ("6444758"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/17 09:23
S20	297	S17 or S18 or S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/18 09:11
S21	36	((support or carrier) same ((precursor or component) near10 (metal\$3 or catalyst))) and S20	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/17 09:29
S22	149	S20 and (vanadium or chromium or manganese or iron or cobalt or nickel or copper or molybdenum or tungsten)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/17 09:29
S23	62	S22 and ((support or carrier) same (oxide or nitride or carbide or oxycarbide or zeolit\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/17 09:30
S24	31	S23 and ((polar or organic) same (urea or alcohol or "amino acid" or "carboxylic acid" or surfactant or heteroaromatic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/17 09:31

## EAST Search History

S25	102	(("5204140") or ("5290589") or ("5317132") or ("5348797") or ("5352517") or ("3846341") or ("3844816") or ("3839064") or ("3787332") or ("4094690") or ("4096095") or ("4115474") or ("4263127") or ("4273936") or ("4273678") or ("4288372") or ("4289886") or ("4317777") or ("4320074") or ("4325804") or ("4331825") or ("4343950") or ("4362547") or ("4366158") or ("4382148") or ("4397770") or ("4414137") or ("4422865") or ("4428864") or ("4451683") or ("4454245") or ("4455388") or ("4464482") or ("4481102") or ("4501925") or ("4503272") or ("4513158") or ("4533684") or ("4533534") or ("4548705") or ("4554332") or ("4555584") or ("4567314") or ("4574146") or ("4578182") or ("4579917") or ("4579838") or ("4581424") or ("4608360") or ("4618738")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/06/18 09:11
S26	99	(("4762815") or ("4765882") or ("4769425") or ("4778861") or ("4791179") or ("4812535") or ("4837240") or ("4859738") or ("4883783") or ("4920090") or ("4985385") or ("5011889") or ("5252677") or ("5279852") or ("5306522") or ("5374694") or ("5389496") or ("5391590") or ("5406002") or ("5411553") or ("5500315") or ("5672800") or ("5854170") or ("5899678") or ("5922616") or ("6254650") or ("6258135") or ("6261679") or ("6265358") or ("6265489") or ("6265576") or ("6266475") or ("6268509") or ("6274538") or ("6274684") or ("6281181") or ("6284072") or ("6287765") or ("6288013") or ("6291392") or ("6291691") or ("6293976") or ("6300436") or ("6300438") or ("6300439") or ("6300496") or ("6302921") or ("6303561") or ("6306984") or ("6307065")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/06/18 09:11

## EAST Search History

S27	99	((("6310107") or ("6318124") or ("6320007") or ("6323366") or ("6326341") or ("6329120") or ("6329121") or ("6329400") or ("6331541") or ("6339126") or ("6339134") or ("6340661") or ("6342538") or ("6344457") or ("6344505") or ("6344521") or ("6346569") or ("6346584") or ("6346586") or ("6350431") or ("6355708") or ("6358911") or ("6362239") or ("6362269") or ("6365564") or ("6365652") or ("6369174") or ("6369184") or ("6369283") or ("6372754") or ("6379863") or ("6388006") or ("6388115") or ("6391391") or ("6391819") or ("6399557") or ("6399564") or ("6410664") or ("6413928") or ("6414139") or ("6414149") or ("6417376") or ("6423676") or ("6423787") or ("6437080") or ("6440649") or ("6440927") or ("6444634") or ("6444686") or ("6444758"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/06/18 09:11
S28	297	S25 or S26 or S27	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/18 09:12
S29	3	S28 and ((support or carrier) with (vanadium or chromium or manganese or iron or cobalt or nickel or copper or molybdenum or tungsten) with solvent)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/18 09:17
S30	92	S28 and ((polar or solvent) same (amine or amide or urea or "carboxylic acid" or alcohol or "amino acid" or heteroaromatic or surfactant))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/18 09:18
S31	63	S30 and (catalyst same (vanadium or chromium or manganese or iron or cobalt or nickel or copper or molybdenum or tungsten))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/18 09:20
S32	28	S31 and (promoter or activator or modifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/18 09:21

## EAST Search History

S33	14	((("4608359") or ("4559365") or ("4113658") or ("3853791") or ("4522940") or ("4469815"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/06/18 09:59
S34	7	("2004000456").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/06/18 09:59
S35	11211	(catalyst same (cobalt or nickel)) and ((promoter or modifier or activator) same (zirconium or uranium or titanium or thorium or hafnium or cerium or lanthanum or yttrium or magnesium or calcium or strontium or cesium or rubidium or molybdenum or tungsten or chromium or manganese or alkali\$3 or lanthanide or "rare earth"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/18 10:37
S36	4216	S35 and ((polar or solvent) same (amine or amide or urea or "carboxylic acid" or alcohol or "amino acid" or heteroaromatic or surfactant))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/18 10:39
S37	1384	S36 and ((support or carrier) same (oxide or carbide or oxycarbide or zeolite or "boron nitride"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/18 10:41
S38	4	S37 and (organic with carbon with combust\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/18 10:42
S39	0	("2005/0250863").URPN.	USPAT	OR	ON	2006/06/18 10:43
S40	13	((("4608359") or ("4559365") or ("4113658") or ("3859791") or ("4522940") or ("4469815"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/11/06 14:13
S41	3	("3853791").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/11/06 14:13

## EAST Search History

S42	2	("5672558").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/11/06 14:32
S43	12	("0510772"   "3067127"   "4061596"   "4472530"   "5217938"   "5269990").PN. OR ("5672558"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/06 14:38
S44	2434	catalyst same (support or carrier) same metal\$3 same ("polar solvent" or "organic solvent")	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/06 14:40
S45	1466	((oxide or carbide or oxycarbide or zeolit\$2 or "boron nitride" or BN) same (support or carrier)) and S44	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/06 14:41
S46	1111	S45 and (metal\$3 same (vanadium or chromium or manganese or iron or cobalt or nickel or copper or molybdenum or tungsten))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/06 14:42
S47	937	S46 and (solvent same (amine or amide or urea or carboxylic or acid\$2 or alcohol\$2 or amino or heteroatom\$2 or surfactant))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/06 14:43
S48	355	S47 and ((catalyst or catalytic or catalytically) with (Fischer\$1Tropsch or reforming or oxidation or hydrotreat\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/06 14:45
S49	44	S48 and (reforming with ("carbon dioxide" or CO or steam))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/06 14:49
S50	27	S49 and ((promoter or modifier or activator) same (zirconium or uranium or titanium or thallium or hafnium or cerium or lanthanum or yttrium or magnesium or calcium or silicon or cesium or rubidium or molybdenum or tungsten or chromium or "rare earth" or "noble metal"))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/06 14:51
S51	91	S48 and ((promoter or modifier or activator) same (zirconium or uranium or titanium or thallium or hafnium or cerium or lanthanum or yttrium or magnesium or calcium or silicon or cesium or rubidium or molybdenum or tungsten or chromium or "rare earth" or "noble metal"))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/06 14:51